

SEQUENCE LISTING

<110> Blaser, Martin
Thompson, Stuart A.
Dworkin, Joel

<120> Method of Delivering Antigens for Vaccination
with a Live Vector

<130> D5979

<140>

<141> 1999-07-30

<150> PCT/US98/01780

<151> 1998-01-30

<160> 20

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<212> DNA

<213> artificial sequence

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<221> primer

<223> Forward primer for kanamycin-resistance (*km*) gene
cassette

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catctctaca gcagcaaaaag 20

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gcggagataa tgtttagtt gatg 24

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aactttaaga tctagcgtac c 21

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<223> Forward primer for 3'sapA1 promoter region
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 <223> Palindromic sequence of putative recombinase
 recognition site present in the 5' conserved
 region of S-layer protein gene cassette
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 ttaaggaatc cttaa 15

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 <223> Amino acid sequence motif of ATP/GTP binding site of
 SapD protein
 <400> 13

Gly Pro Ser Ala Ala Gly Lys Ser
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 <213> *Campylobacter fetus*
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 signature sequence for ABC transporters found in
 SapD protein
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Lys Ser Gly Gly Gln Arg Gln Arg Val Ala Leu Ala
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 <213> *Campylobacter fetus*
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 <223> Amino acid sequence of conserved peptide found in
 SapA, SapA1, and SapB protein C-termini; Xaa = Thr
 or Gly at position #5

SEQ 5

<400> 15
Gly Asp Gly Ser Xaa
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<210> 16
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Ser Lys Gly Ser Thr
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SapA, SapA1, and SapB protein C-termini; Xaa = unknown
at position #2; Xaa = Val or Ile at position #7
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Gly Xaa Thr Tyr Val Val Xaa Asp
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<213> *Campylobacter fetus*
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SapA2 protein C-terminus; Xaa = unknown at position #2

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Gly Xaa Thr Tyr Val Val Asp Ala

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<213> unknown

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<223> Amino acid sequence of motif implicated in protease secretion

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Asp Val Ile Val

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<223> Amino acid sequence similar to protease secretion motif found in SapA and SapB protein C-termini

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Asp Gly Ser Val Ile

5